

FIG. 1

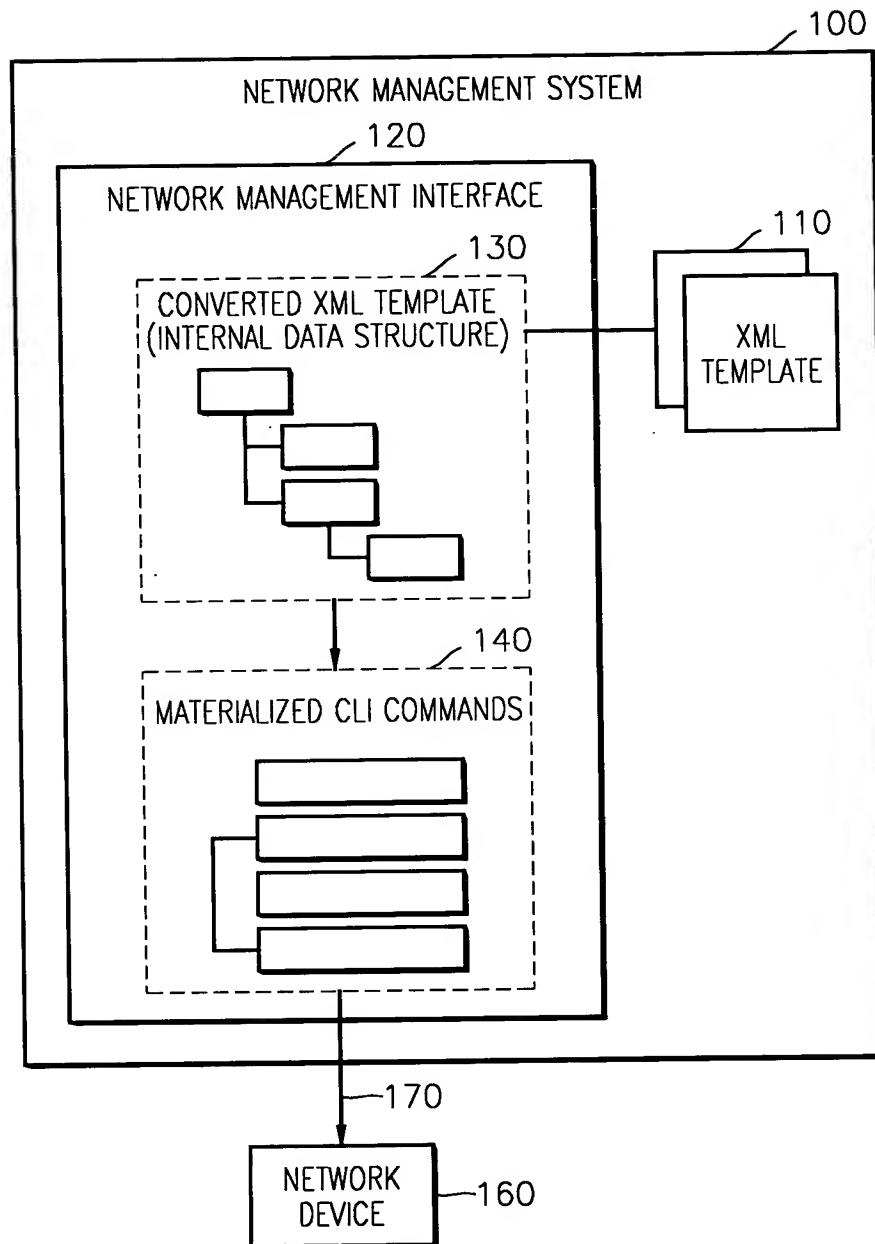


FIG. 2

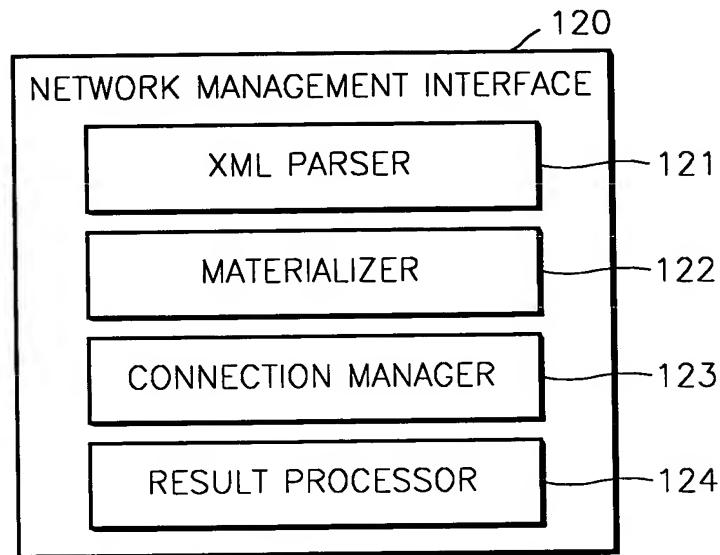


FIG. 3

111

```
<!ELEMENT cli (#PCDATA | (cli)*)>
<!ATTLIST cli
  tag          CDATA          #IMPLIED
  prompt1     CDATA          #IMPLIED
  prompt2     CDATA          #IMPLIED
  command      CDATA          #IMPLIED
  errorstr    CDATA          #IMPLIED
  always       (true | false) "false"
  ainput      CDATA          #IMPLIED
  ainputresponse CDATA        #IMPLIED>
```

## FIG. 4

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```
(config)# router bgp 55555
(config-router)# address-family ipv4 vrf VRF-SEOUL
(config-router-af)# neighbor 203.255.25.15 remote-as 5555
(config-router-af)# neighbor 203.255.25.15 activate
```

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```
<cli prompt1="#" command="config terminal" errorstr="^">
<cli tag="bgp1" prompt1="#" command="router bgp $asnum" errorstr="^">
<cli>
<cli tag="bgp2" prompt1="#" command="address-family ipv4 vrf $vrfname" errorstr="^">
<cli>
<cli tag="bgp3" prompt1="#" command="neighbor $ipn1 remote-as $nasnum" errorstr="^">
</cli>
<cli tag="bgp4" prompt1="#" command="neighbor $ipn2 activate" errorstr="^">
</cli>
</cli>
<cli prompt1="#" always="true" command="exit"></cli>
</cli>
<cli prompt1="#" always="true" command="exit"></cli>
</cli>
<cli prompt1="#" always="true" command="exit"></cli>
</cli>
```

FIG. 5

140                    141                    142

```
algorithm materialize(CLI root_node) {
    if ( root_node is not a PAT ) {
        if ( root_node needs an argument ) {
            if ( argument at the front of argument_queue
                is for the root_node ) {
                argument = argument_queue.pop_front();
                process(CLI, argument);
            }
            else { return; }
        }
        else { process(CLI); }
    }
    restart :
    for( i = 0; i < root_node.children_count(); ++i ) {
        materialize( root_node.child[ i ] );
    }
    if ( root_node is PAT &&
        argument at the front of argument_queue is for
        one of the children of root_node ) {
        goto restart;
    }
}
```

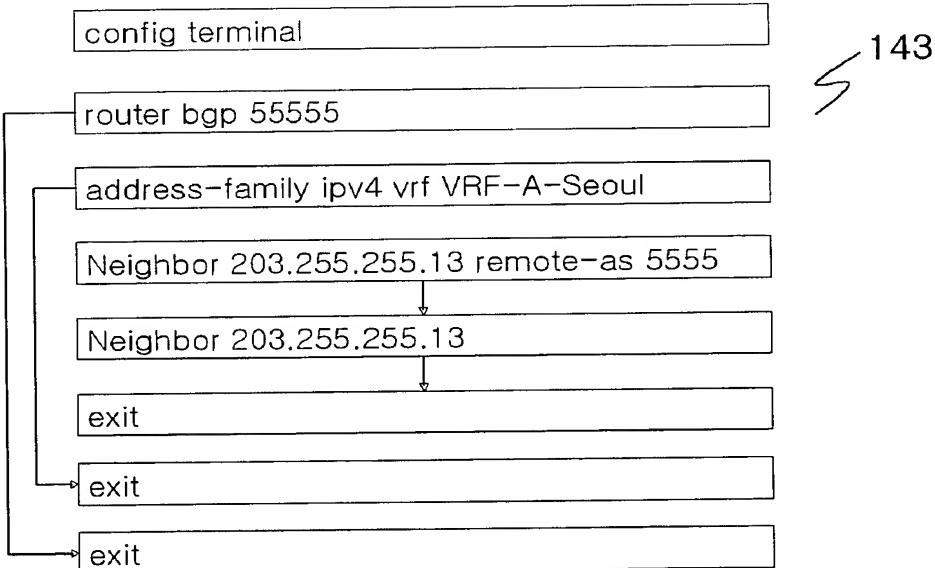
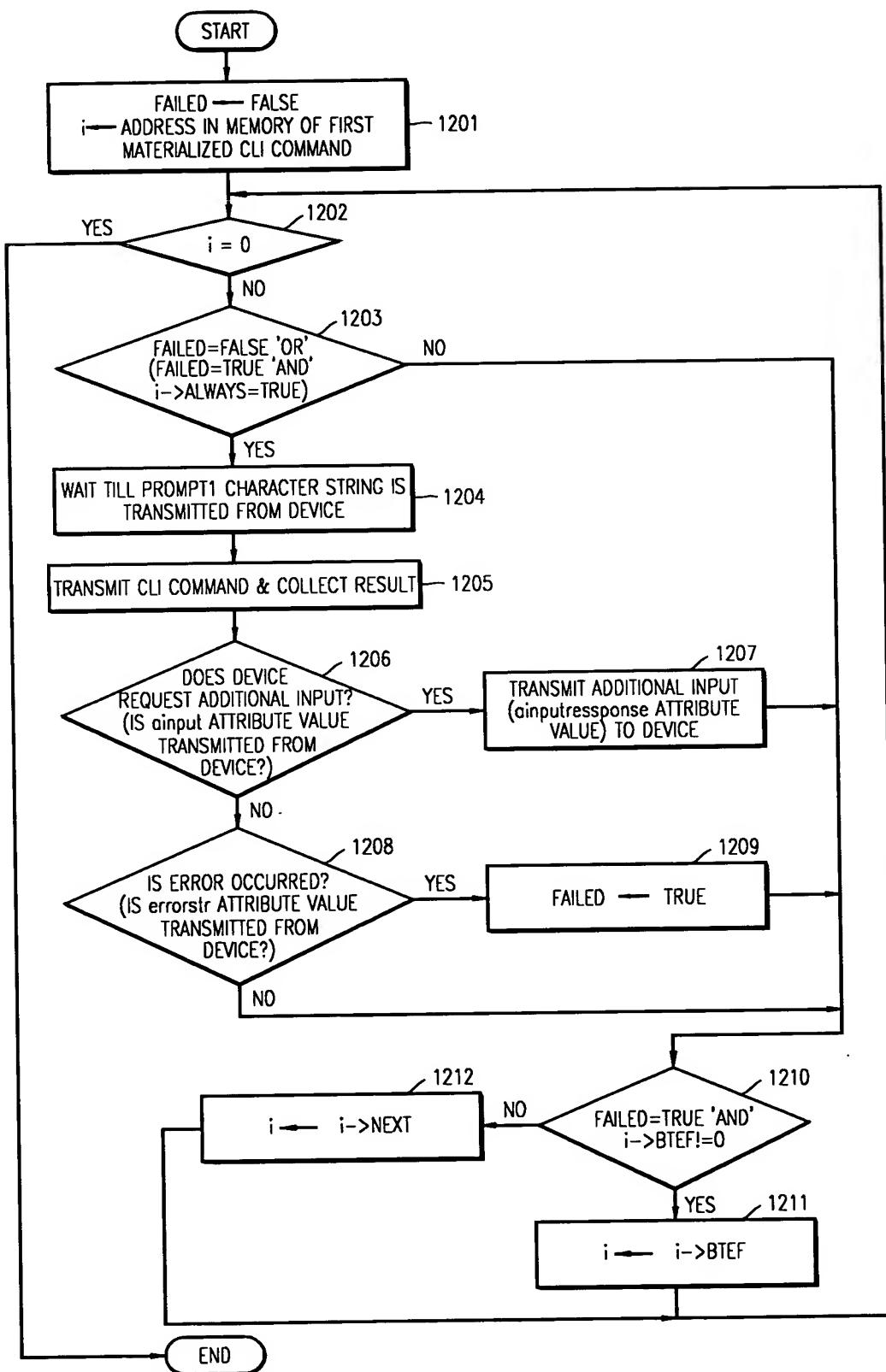


FIG. 6



**FIG. 7**

